

# Claims

- [c1] 1. An adapter for connecting a mobile phone earphone-microphone set to a stereo audio system having an earplug socket and a microphone socket, wherein the mobile phone earphone-microphone set comprises a left channel earplug, a right channel earplug, a microphone and a first head connector, the first head connector is a four electrode terminal having a first electrode, a second electrode, a third electrode and a fourth electrode, a first terminal of the microphone is coupled to the first electrode of the first head connector and a second terminal of the microphone is coupled to the fourth electrode of the first head connector, a first terminal of the left channel earplug is coupled to the second electrode of the first head connector and a second terminal of the left channel earplug is coupled to the fourth electrode of the first head connector, a first terminal of the right channel earplug is coupled to the third electrode of the first head connector and a second terminal of the right channel earplug is coupled to the fourth electrode of the first head connector, the adapter comprising:  
a second head connector, wherein the second head connector is a terminal with a first electrode and a second

electrode for connecting to the microphone socket of the stereo audio system;

a third head connector, wherein the third head connector is a terminal with a first electrode, a second electrode and a third electrode for connecting to the earplug socket of the stereo audio system; and

a socket having a first contact terminal, a second contact terminal, a third contact terminal and a fourth contact terminal, wherein the first contact terminal is coupled to the first electrode of the second head connector, the second contact terminal is coupled to the first electrode of the third head connector, the third contact terminal is coupled to the second electrode of the third head connector, the fourth contact terminal is coupled to both the second electrode of the second head connector and the third electrode of the third head connector, and the socket is a means of connecting to the first head connector such that when the first head connector is plugged into the socket, the first contact terminal, the second contact terminal, the third contact terminal and the fourth contact terminal of the socket are in contact with the first electrode, the second electrode, the third electrode and the fourth electrode of the first head connector respectively.

[c2] 2. The adapter of claim 1, wherein the stereo audio sys-

tem comprises a computer multi-media system.

- [c3] 3. The adapter of claim 1, wherein the stereo audio system comprises a stereo hi-fi system.
- [c4] 4. The adapter of claim 3, wherein the stereo audio system comprises a portable music system.
- [c5] 5. The adapter of claim 1, wherein the socket has a socket hole for receiving the first head connector and the socket hole has a diameter about 2.5mm.
- [c6] 6. The adapter of claim 1, wherein the second head connector and the third head connector have a diameter about 3.5mm.
- [c7] 7. An adapter for connecting a mobile phone earphone-microphone set to a stereo audio system having an earplug socket, wherein the mobile phone earphone-microphone set comprises a left channel earplug, a right channel earplug, a microphone and a first head connector, the first head connector has a first electrode, a second electrode, a third electrode and a fourth electrode, a first and a second terminal of the microphone are coupled to the first and the fourth electrode of the first head connector, a first and a second terminal of the left channel earplug are coupled to the second and the fourth electrode of the first head connector, a first and a sec-

ond terminal of the right channel earplug are coupled to the third and the fourth electrode of the first head connector, the adapter comprising:

a microphone head connector having a first electrode and a second electrode;

an earplug head connector having a first electrode, a second electrode and a third electrode for connecting to the earplug socket of the stereo audio system; and

a second connector having a first contact terminal, a second contact terminal, a third contact terminal and a fourth contact terminal, wherein the first contact terminal is coupled to the first electrode of the microphone head connector, the second contact terminal is coupled to the first electrode of the earplug head connector, the third contact terminal is coupled to the second electrode of the earplug head connector, the fourth contact terminal is coupled to both the second electrode of the microphone head connector and the third electrode of the earplug head connector, and the second head connector is a means of connecting to the first head connector such that when the first head connector is plugged into the socket, the first contact terminal, the second contact terminal, the third contact terminal and the fourth contact terminal of the second head connector are in contact with the first electrode, the second electrode, the third electrode and the fourth electrode of the first head con-

nector respectively.

- [c8] 8. The adapter of claim 7, wherein the stereo audio system furthermore comprises a microphone socket for receiving the microphone head connector.
- [c9] 9. The adapter of claim 7, wherein the stereo audio system comprises a computer multi-media system.
- [c10] 10. The adapter of claim 7, wherein the stereo audio system comprises a stereo hi-fi system.
- [c11] 11. The adapter of claim 10, wherein the stereo audio system comprises a portable music system.